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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,579	09/26/2001	Linden Minnick	42390P12266	3536
8791	7590 03/14/2005		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			PYZOCHA, MICHAEL J	
SEVENTH I			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90025-1030		2137		

DATE MAILED: 03/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/965,579	MINNICK, LINDEN			
Office Action Summary	Examiner	Art Unit			
	Michael Pyzocha	2137			
The MAILING DATE of this communication a		correspondence address			
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).  Status		nely filed  rs will be considered timely.  the mailing date of this communication.  CD (35 U.S.C. § 133).			
	Responsive to communication(s) filed on <u>26 September 2001</u> .				
· <u> </u>	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-44 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-44 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and are subject.	awn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examir 10) ☑ The drawing(s) filed on 26 September 2001 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	s/are: a)⊠ accepted or b)⊡ object e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 Paper No(s)/Mail Date	Paper No(s)/Mail D				

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### DETAILED ACTION

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1. Claims 1-44 are pending.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-6, 8-9, 12-17, 19-20, 23-28, 30-31, 34-39, and 41-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Godwin et al (US 6505192).

As per claims 1, 12, 23 and 34, Godwin et al discloses receiving a network packet having a corresponding security association (SA); determining for the packet a key value corresponding to the SA; using the key value to determine a location of an entry in a lookup table, the entry containing information corresponding to the SA; retrieving from the entry an index to a location of the SA in memory; and retrieving the

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SA from memory based on the index (see column 6 line 47 through column 7 line 10 and lines 25-44).

As per claims 2, 13, 24 and 35, Godwin et al discloses receiving a network packet comprises a device driver being passed an egress packet from an electronic system operating system (see column 7 lines 25-44).

As per claims 3, 14, 25 and 26, Godwin et al discloses receiving a network packet comprises a device driver being passed an ingress packet from a network interface device (see column 6 line 47 through column 7 line 10).

As per claims 4, 15, 26 and 37, Godwin et al discloses the key value is a handle created for the SA for an egress packet (see column 7 lines 25-44 wherein the name is the handle).

As per claims 5, 16, 27 and 38, Godwin et al discloses the key value is a security parameter index (SPI) extracted from the packet for an ingress packet (see column 6 lines 47-67).

As per claims 6, 17, 28 and 39, Godwin et al discloses the lookup table entry comprises the key value and the index (see column 6 line 47-67).

As per claims 8-9, 19-20, 30-31 and 41-42, Godwin et al discloses the location in memory of an SA corresponding to egress traffic being in a first table, and the location in memory of an SA corresponding to ingress traffic being in a

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second table and an entry containing information for an SA corresponding to egress traffic being in a first lookup table, and an entry containing information for an SA corresponding to ingress traffic being in a second lookup table (see column 4 lines 18-67).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 7, 18, 29 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Godwin et al as applied to claims 1, 12, 23, and 34 above, and further in view of Kobayashi et al (JP 03164866).

As per claims 7, 18, 29 and 40, Godwin et al fails to disclose the lookup table entry further comprises a counter to track collisions for the entry.

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However, Kobayashi et al teaches such a counter to track collisions (see CONSTITUTION).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use Kobayashi et al's method of tracking collisions using a counter in the security association method of Godwin et al.

Motivation to do so would have been to allow an output of a new address when collisions occur (see CONSTITUTION).

6. Claims 10-11, 21-22, 32-33 and 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Godwin et al as applied to claims 1, 12, 23, and 34 above, and further in view of Otterness et al (US 6460122) and further in view of Ross et al (US 6711562).

As per claims 10, 21, 32 and 43, Godwin et al fails to disclose supporting a number of network traffic streams, wherein the lookup table has  $2^N$  entries where N is an integer,  $2^N$  being the lowest binary number greater than five times the number of network traffic streams supported.

However, Otterness et al teaches a lookup table of size  $2^N$  (see column 17 Tables III and IV) and Ross et al teaches the size of the table being five times the number of raw data (see column 15 lines 1-22).

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At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the table size of Otterness et al in the Godwin et al system and to use the more specific table size of Ross et al in the modified Godwin et al and Otterness et al system.

Motivation to do so would have been that it is advantageous to have a table size of  $2^N$  (see Table III) and that table sizes are typically 20% (or five times) the size of the raw data (see Ross et al column 15 lines 1-22).

As per claims 11, 22, 33 and 44, the modified Godwin et al, Otterness et al and Ross et al system discloses the key value is determined by using a bit-wise AND hash function with a mask of value  $2^N-1$ , where N is an integer, wherein the hash table contains  $2^N$  entries (see Otterness et al column 17 Table III and IV).

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bournas et al (US 6061679) discloses bit-wise AND with a mask value and Attwood et al (US 6347376) discloses a table of security associations.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pyzocha whose telephone number is (571) 272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

andrew Caldute

MJP

ANDREW CALDWELL SUPERVISORY PATENT EXAMINER